

## Test Procedure for §170.302(e) (3) Plot and display growth charts

This document describes the draft test procedure for evaluating conformance of complete EHRs or EHR modules to the certification criteria defined in 45 CFR Part 170 Subpart C of the Interim Final Rule (IFR) as published in the Federal Register on January 13, 2010. The document is organized by test procedure and derived test requirements with traceability to the normative certification criteria as described in the Test Procedure Overview document located at <http://healthcare.nist.gov>. These test procedures will be updated to reflect the certification criteria defined in the ONC Final Rule.

### CERTIFICATION CRITERIA

§170.302 (e)(3) Plot and display growth charts. Plot and electronically display, upon request, growth charts for patients 2-20 years old.

### INFORMATIVE TEST DESCRIPTION

This section provides an informative description of how the test procedure is organized and conducted. It is not intended to provide normative statements of the certification requirements.

This test evaluates the capability for a Complete EHR or combination of EHR Modules to plot and electronically display, upon request, growth charts for patients 2-20 years old. The test consists of one section:

- Plot and Display - evaluates the capability to plot and display, upon request, growth charts for patients 2-20 years old
  - The Tester enters the NIST-supplied height and weight for 2 patients (1 male and 1 female) 2-20 years old
  - The Tester displays the height and weight entered during the test
  - The Tester validates that the height and weight are plotted and displayed accurately on the gender-appropriate growth chart

### REFERENCED STANDARDS

None

### NORMATIVE TEST PROCEDURES

#### Derived Test Requirement(s)

DTR170.302.e.3 - 1: Plot and display growth charts

#### Required Vendor Information

- VE170.302.e.3 - 1.01: Vendor shall identify six patients with an existing record in the EHR to be used for this test
- Three male patients, ages 3 years old, 9 years old and 13 years old
  - Three female patients, ages 4 years old, 9 years old and 17 years old

OR

Vendor shall identify six patients with an existing record in the EHR to be used for this test

- Three male patients with ages that conform to the age data provided for males in the test data set for this test
- Three female patients with ages that conform to the age data provided for females in the test data set for this test

VE170.302.e.3 - 1.02: Vendor shall identify the EHR function(s) that are available to: 1) select these patients, 2) enter the height and weight for these patients, and 3) plot and display growth charts for these patients

#### Required Test Procedure

TE170.302.e.3 - 1.01: Tester shall select height and weight data from the NIST-supplied test data sets appropriate for one male patient and one female patient of the six patients identified by the Vendor

TE170.302.e.3 - 1.02: Utilizing the EHR function(s) identified by the Vendor, the Tester shall select each of those patient's existing EHR records and enter their height and weight data

TE170.302.e.3 - 1.03: Utilizing the NIST-supplied Inspection Test Guide, the Tester shall verify that the test data have been entered correctly and without omission

TE170.302.e.3 - 1.04: Utilizing the EHR function(s) identified by the Vendor, the Tester shall verify that the height and weight for each patient is plotted and displayed on the appropriate growth chart (male or female, 2-20 years)

#### Inspection Test Guide

IN170.302.e.3 – 1.01: Tester shall verify that the required units of measure appropriate for the height and weight are displayed or can be selected at the time height and weight are entered

IN170.302.e.3 – 1.02: Tester shall verify that the height and weight test data are entered correctly and without omission

IN170.302.e.3 – 1.03: Tester shall verify that the height and weight are stored in the patient's record

IN170.302.e.3 – 1.04: Tester shall verify that the gender and age of each patient are displayed

IN170.302.e.3 – 1.05: Tester shall verify that the appropriate growth charts (male or female, 2-20 years) display

IN170.302.e.3 – 1.06: Tester shall verify that the indicator for the point at which the height and age meet on the growth chart for the male patient is plotted accurately

IN170.302.e.3 – 1.07: Tester shall verify that the indicator for the point where the weight and age meet on the growth chart for the male patient is plotted accurately

IN170.302.e.3 – 1.08: Tester shall verify that the indicator for the point where the height and age meet on the growth chart for the female patient is plotted accurately

IN170.302.e.3 – 1.09: Tester shall verify that the indicator for the point where the weight and age meet on the growth chart for the female patient is plotted accurately

## EXAMPLE TEST DATA

Age	Height	Weight
<b>Male</b>		
3 years old	2 feet 10 inches / 86 cm	30 lbs / 14 kg
10 years old	4 feet 3 inches / 129.54 cm	70.4 lbs / 32 kg
13 years old	5 feet 7 inches / 170 cm	150 lbs/ 68 kg
<b>Female</b>		
4 years old	3 feet 1 inch / 93.98 cm	35.2 lbs / 16 kg
9 years old	4 feet 8 inches / 142 cm	75 lbs/ 34 kg
17 years old	5 feet 11 inches /180 cm	110 lbs / 50 kg

## CONFORMANCE TEST TOOLS

None